

Day Optics System

DESCRIPTION

The Rifle Combat Optic (RCO) is the cornerstone of the Day Optics program. The RCO is a fixed 4X optical aiming sight designed for use with the service rifle configured with the MIL-STD-1913 Rail Adapter System. It attaches to the rail to provide the user a targeting tool to engage distant daylight and near low-lit targets with increased identification certainty.

The Holographic Diffraction Sight (HDS) is a non-magnified sight that facilitates the rapid engagement of targets at tactical distances. It can be mounted on the M4A1 Close Quarter Battle Weapon (CQBW) and is part of the CQBW collateral equipment set. The HDS is compatible with all generations of night vision devices and can be positioned in tandem with many Image Intensification systems.

OPERATIONAL IMPACT

The RCO is designed to provide enhanced target identification and hit probability for the M4A1/M16A4 rifle out to 800 meters. It is designed with dual illumination technology using a fiber optic light source for daytime illumination and tritium for night and low-light use. This allows the operator to keep both eyes open while engaging targets and maintaining maximum situational awareness.

The HDS employs a heads-up display that eliminates blind spots, constricted vision, and tunnel vision normally associated with tube-type sights. Target identification is improved through increased situational awareness by providing the operator the ability to engage targets with both eyes open. The see-through holographic reticle allows instant target recognition with no obscuration of the point of aim.

PROGRAM STATUS

The RCO contract was awarded in 2005. Through FY 2006, approximately 199,000 RCOs have been purchased with deliveries extending to 2008. 2,000 HDS M512's have been procured to date with deliveries completed.

Procurement Profile:	FY 2007	FY 2008
RCO	0	0
HDS	2,500	0

Developer/Manufacturer:
RCO: Trijicon Industries, Detroit, MI
HDS: EO Tech, L3 Communications,
Ann Arbor, MI